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Introduction

The following use case describes the main success scenario for the entire FPA (Fire Program Analysis) System Preparedness Module (PM) application. This use case is in process and will change as the detail use cases become more complete and accurate. Referring to the FPA Business Function Model will illustrate where the functionality contained in this use case resides in the overall fire program business. The Local Agency Fire Planner is the role played by the person responsible for fire planning within a local agency. Since the SuD may be used by multiple agencies, this role may be played by multiple persons within the FPU. This use case, as well as the other summary and detail use case, assumes a single, shared process for all agencies.

Use Case No: FPA01-00

Use Case Name: Prepare Initial Attack (IA) Budget

Brief Description:	**Analyze fire program preparedness for the preparation of the Initial Attack Budget Request.**
Primary Actor:	Local Agency Fire Planner(s)
Stakeholders:	See FPA Stakeholder Interest List
Preconditions:	Agency policy exists to direct the use of FPA System PM.
Triggers:	An annual call for a budget request by the national, state or regional office is issued to the Agency and/or fire program budget planning for initial attack is required.

Main Success Scenario:

1. Local Agency Fire Program Managers and Planner(s) define the FPU (fire planning unit) and enter planning analysis parameters.
2. Local Agency Fire Planner(s) define FMUs (fire management units).
3. Local Agency Fire Planner(s) define preparedness and emergency suppression resources.
4. Local Agency Fire Planner(s) define preparedness and emergency suppression costs.
5. Local Agency Fire Planner(s) initiate a run of the IA budget analysis and the SuD (System under Discussion) defines the cost effective fire suppression organization for multiple budget levels for the FPU.
6. The SuD performs post-optimization analysis to define costs for new equipment and facilities, support, program leadership and administrative personnel.
7. Local Agency Fire Planner(s) requests reports of the results of analysis and the SuD creates the reports.

Alternate Flow of Events:

1a The FPU is comprised of only one Agency unit.
1a 1 No other fire planners are involved in defining the FPU.
1b The FPU is an aggregate of other FPUs.
1b 1 The SuD allows the user to select FMUs from other FPUs to include in the analysis.

Policy Recommendations:

1. Direct the use of FPA System PM for initial attack budget preparation by all Agencies.
2. The level of resolution for FPA System PM digital spatial data should be no coarser than 30 meters.
3. FPA data standards are established and used.

Business Rules:

1. Agency refers to BLM, USFS, FWS, BIA or NPS or any fire protection agency whose budget is the subject of the analysis.
2. Only one set of alternative outyear budget requests may be submitted per planning unit per budget year for any given Agency.
3. The Rural Fire Assistance Program is out of scope for this FPA System PM project.
4. FPA will accept data from the existing PCHA application. The data output from PCHA includes fire weather and fire occurrence, distribution of fires by intensity level and rates of spread for a designated FMU.
5. Any revision to the budget submission management process is out of scope of the FPA project.
6. The importance of protecting structures within the FPU will be addressed through fire management objectives.
7. The mechanism that queries the national database is out of scope of this project. It is understood that this database should be able to be queried by any organizational level and across agencies using a standard query tool.
8. The national database will include all Agency resources used in FPA System PM. This table will use the NWCG standard for resource kind and type.
9. Ignition detection is included in initial attack.
10. The SuD is designed as a tabular system that can use digital spatial data as an input and will record geospatial data when appropriate.
11. The SuD will allow the user to input spatial coordinate data to interface with GIS applications.
12. Future releases of the SuD will incorporate geospatial components and the ability to relate and analyze data based on spatial location.
13. The NWCG Glossary will be the project standard for definition of terms.
14. The model will be run initially at the local fire planning unit level.
15. A national shared database with the results of all the planning analysis and budgeting will be created and maintained as part of the FPA project. The ability to reverse-engineer is not part of this database.
16. The SuD will use National Wildfire Coordinating Group (NWCG) standards for the minimum preparedness module configuration of resources.

Assumptions:

- Spatial data can be digital or a hardcopy map.
- The SuD will allow conversion from latitude and longitude to UTM coordinates and vice versa and may include conversion from township and range also.

Issues:

1. Will predictive services be excluded from the analysis?
2. What happens to restoration costs between USFS and DOI? Are they charged to emergency suppression?

3. Note: Refer to the Requirements Analysis Questions Log for additional issues.

Terms:

- Planning Analysis Parameters: The data required by the SuD to define a unique run of the analysis, e.g. planning budget year, analysis objectives, etc.

Metadata:

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